

Scaled data based on original data using  
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: CORELITE

Report Number: P561912

Luminaire Tested: **SQ4-PR1-075U-100D-92765-1D-UNV-STD-W-4 (5000K)**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P561912  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-51, G2-2106-289-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/30/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4-PR1-075U-100D-92765-1D-UNV-STD-W-4 (5000K)  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS  
DOWNLIGHT 1000 LUMENS PER FOOT  
UPLIGHT 750 LUMENS PER FOOT  
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

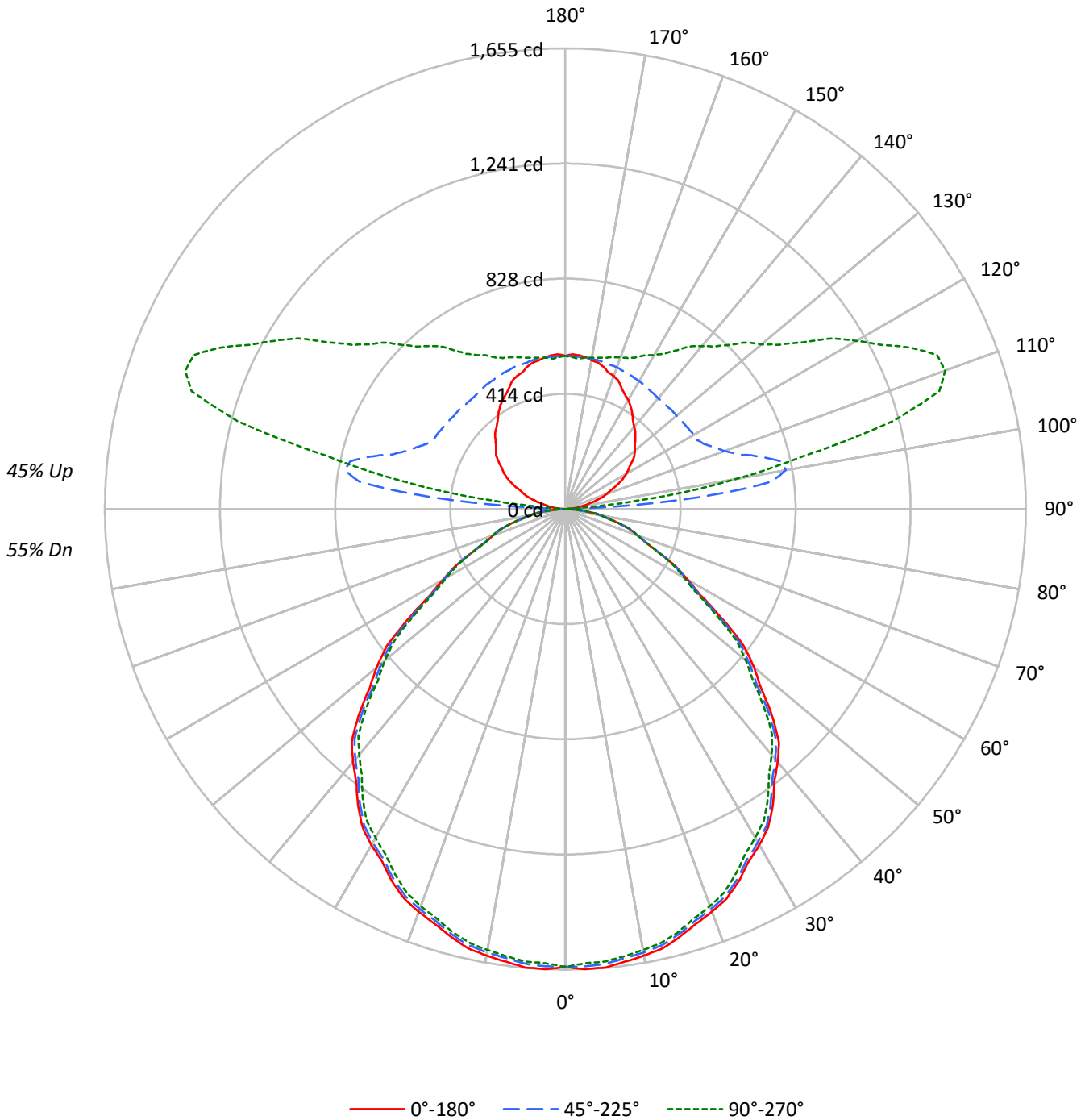
Lumens per Lamp: N/A  
Luminaire Lumens: 7530.5 lumens  
Efficiency: N/A  
Efficacy: 114.3 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 65.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	108	108	108	108	100	100	100	100	86	86	86	73	73	73	60	60	60	55
1	99	95	91	88	92	88	85	82	76	73	71	64	63	61	54	53	52	47
2	91	83	77	72	84	78	72	68	67	63	59	57	54	52	48	46	44	40
3	83	73	66	60	77	69	62	57	59	54	50	51	47	44	43	40	38	34
4	76	65	57	51	70	61	54	49	53	47	43	45	41	38	38	35	33	29
5	70	58	50	44	65	54	47	42	47	42	37	41	36	33	35	31	29	26
6	64	52	44	38	60	49	42	37	43	37	33	37	32	29	31	28	25	23
7	60	47	39	34	55	44	37	32	39	33	29	34	29	26	29	25	23	20
8	55	43	35	30	51	40	33	29	35	30	26	31	26	23	26	23	20	18
9	51	39	32	27	48	37	30	26	33	27	23	28	24	21	24	21	18	16
10	48	36	29	24	45	34	27	23	30	25	21	26	22	19	23	19	17	15

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	15177	15177	15177
5°	15314	15195	15117
10°	15265	15159	15080
15°	15199	15103	15022
20°	15121	15024	14913
25°	15015	14915	14742
30°	14853	14748	14537
35°	14634	14506	14299
40°	14300	14147	13890
45°	13717	13477	13200
50°	12690	12386	12142
55°	11076	10825	10597
60°	9333	9256	9073
65°	8073	8104	8043
70°	7416	7453	7453
75°	7122	7122	7172
80°	6700	6774	6700
85°	5399	6002	6002



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	155.6	2.1
10°-20°	445.1	5.9
20°-30°	671.3	8.9
30°-40°	799.9	10.6
40°-50°	788.6	10.5
50°-60°	602.7	8.0
60°-70°	373.0	5.0
70°-80°	211.9	2.8
80°-90°	64.4	0.9
90°-100°	250.8	3.3
100°-110°	713.5	9.5
110°-120°	683.6	9.1
120°-130°	541.0	7.2
130°-140°	434.3	5.8
140°-150°	340.0	4.5
150°-160°	248.8	3.3
160°-170°	154.1	2.0
170°-180°	52.3	0.7
0°-30°	1271.9	16.9
0°-40°	2071.8	27.5
0°-60°	3463.1	46.0
0°-90°	4112.3	54.6
90°-120°	1647.8	21.9
90°-150°	2963.1	39.3
90°-180°	3418.0	45.4
0°-180°	7530.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1645	1645	1645	1645	1645	
5°	1654	1636	1641	1635	1632	157
15°	1591	1574	1581	1576	1573	449
25°	1475	1457	1465	1449	1448	679
35°	1299	1284	1288	1271	1270	811
45°	1051	1038	1033	1014	1012	805
55°	689	678	673	662	659	617
65°	370	367	371	368	368	375
75°	200	200	200	201	201	211
85°	51	54	57	57	57	59
90°	0	0	0	0	0	3
95°	27	108	485	168	104	31
105°	111	168	727	1284	1221	117
115°	206	249	551	1168	1372	203
125°	291	322	526	873	1044	260
135°	356	385	520	738	834	274
145°	420	441	524	638	696	262
155°	479	490	537	577	600	221
165°	529	531	543	555	563	149
175°	554	551	549	546	542	53
180°	550	550	550	550	550	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1645.0	1645.0	1645.0	1645.0	1645.0
2.5°	1655.2	1640.8	1645.0	1641.4	1633.7
5°	1653.5	1635.5	1640.7	1635.0	1632.2
7.5°	1640.7	1623.0	1628.3	1622.6	1620.9
10°	1629.4	1612.8	1618.1	1612.3	1609.6
12.5°	1616.9	1599.2	1605.6	1598.7	1596.0
15°	1591.2	1574.5	1581.2	1575.5	1572.7
17.5°	1562.8	1545.1	1551.8	1545.2	1541.6
20°	1540.1	1523.5	1530.2	1520.3	1518.9
22.5°	1515.2	1498.6	1505.3	1492.0	1491.7
25°	1475.0	1457.0	1465.1	1449.4	1448.1
27.5°	1427.1	1410.5	1417.2	1401.3	1399.6
30°	1394.2	1377.6	1384.3	1367.2	1364.5
32.5°	1356.8	1341.3	1346.9	1329.8	1328.2
35°	1299.3	1284.0	1287.9	1270.9	1269.5
37.5°	1233.8	1220.0	1222.2	1203.5	1202.1
40°	1187.3	1173.5	1174.6	1154.7	1153.3
42.5°	1136.3	1122.5	1121.3	1101.5	1100.1
45°	1051.3	1037.5	1032.9	1014.4	1011.7
47.5°	954.4	940.6	932.0	917.0	915.0
50°	884.1	870.3	862.9	850.0	845.9
52.5°	808.2	794.3	788.1	776.4	772.2
55°	688.6	677.5	673.0	661.6	658.8
57.5°	575.0	567.5	566.2	555.1	554.0
60°	505.8	501.7	501.6	491.7	491.7
62.5°	446.9	443.8	446.0	439.5	438.4
65°	369.8	367.0	371.2	368.4	368.4
67.5°	308.9	308.9	311.4	310.3	310.3
70°	274.9	274.9	276.3	276.3	276.3
72.5°	244.3	243.2	246.8	246.8	245.7
75°	199.8	199.8	199.8	201.2	201.2
77.5°	155.6	155.9	157.0	156.7	155.6
80°	126.1	127.5	127.5	126.1	126.1
82.5°	96.6	98.0	98.0	97.7	96.6
85°	51.0	53.8	56.7	56.7	56.7
87.5°	14.7	19.2	22.7	22.6	21.5
90°	0.0	0.0	0.0	0.0	0.0
92.5°	8.4	44.4	102.9	30.0	22.6
95°	27.2	108.0	485.4	168.0	103.6
97.5°	50.0	126.5	747.6	535.0	366.6
100°	65.9	137.5	804.5	814.9	627.7
102.5°	83.5	149.4	792.0	1043.1	879.6
105°	110.9	168.2	727.1	1284.3	1220.9
107.5°	138.7	190.1	651.3	1352.3	1408.8
110°	158.0	206.0	607.8	1326.3	1453.1

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	176.4	222.0	578.5	1264.7	1445.6
115°	206.1	249.1	551.3	1168.0	1371.5
117.5°	232.2	272.6	535.2	1062.2	1277.8
120°	253.2	286.9	533.5	1001.7	1208.3
122.5°	269.9	303.7	529.4	948.6	1140.5
125°	290.8	322.5	526.2	873.2	1044.1
127.5°	313.6	343.3	524.5	828.2	969.0
130°	325.4	355.0	522.0	796.8	919.6
132.5°	337.9	366.8	522.0	772.3	885.3
135°	355.7	385.4	519.9	737.6	833.8
137.5°	372.4	401.3	519.7	708.3	791.3
140°	385.0	414.7	518.9	683.9	763.7
142.5°	399.2	424.0	521.4	664.5	736.1
145°	419.5	441.0	524.1	638.4	695.7
147.5°	436.9	457.7	528.7	612.1	661.6
150°	451.9	466.3	530.4	603.4	638.2
152.5°	463.7	478.8	532.1	591.6	623.9
155°	479.1	490.4	536.7	577.0	600.5
157.5°	498.4	505.1	537.7	570.3	587.1
160°	508.4	513.6	541.9	565.3	579.6
162.5°	514.3	520.2	542.8	561.0	572.0
165°	529.4	531.4	543.0	554.7	562.8
167.5°	539.6	537.8	547.8	553.1	556.4
170°	543.0	541.9	546.1	547.2	551.3
172.5°	550.5	547.0	548.6	545.5	548.8
175°	554.5	551.4	549.2	546.0	541.9
177.5°	556.1	551.2	548.6	545.3	546.1
180°	550.3	550.3	550.3	550.3	550.3

(END OF REPORT)